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DATE MAILED: 04/06/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/700,144	11/03/2003	Mark A. Neil	10011.002300 (P1240)	3845	
31894 7	590 04/06/2004		EXAMINER		
	& BENEDICTO, LLP		GURZO, PAUL M		
P.O. BOX 641	330				
SAN JOSE, C	A 95164		ART UNIT	PAPER NUMBER	
			2881		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	tion No.	Applicant(s)					
		10/700,	144	NEIL ET AL.					
	Office Action Summary	Examine	er	Art Unit					
		Paul Gu		2881					
Period f	The MAILING DATE of this commun or Reply	ication appears on tl	he cover sheet wi	ith the correspondence add	lress				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1)	Responsive to communication(s) file	d on							
2a)□	' '	2b)☐ This action is	non-final.						
3)□	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
5) 6) 7)									
Applicat	ion Papers								
9)[9)☐ The specification is objected to by the Examiner.								
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any object				D 4 4044 D				
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority	under 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
Attachmer	, ,								
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (P	TO-948)		Summary (PTO-413) s)/Mail Date					
3) Info	rmation Disclosure Statement(s) (PTO-1449 or er No(s)/Mail Date			nformal Patent Application (PTO-	-152)				

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DETAILED ACTION

Election/Restrictions

This application contains claims directed to the following patentably distinct species of the claimed invention:

Group 1 is drawn to claims 1-7 and 11 that claim a method for automated focusing of an electron image comprising determining an energy filter cut-off voltage and adjusting a focusing condition for a change in the energy filter cut-off voltage.

Group 2 is drawn to claims 8-10 that claim an apparatus for automated focusing of an electron image comprising an electron detector configured to receive and detect scattered electrons, an energy filter configured to filter the scattered electrons prior to the electron detector, a filter bias voltage device coupled to the energy filter to apply a controllable filter bias voltage thereto, a focusing device for adjusting a focus of the electron image, and a controller coupled to the electron detector, the filter bias voltage device, and the focusing device, wherein the controller varies the filter bias voltage to determine a change in energy filter cut-off voltage and adjusts the focus of the electron image in compensation for the change.

Group 3 is drawn to claims 12-19 and 23 that claim a method for automated focusing of an electron image in a scanning electron imaging apparatus, the method comprising varying a focusing condition of a primary electron beam in a first image plane so as to maximize an intensity of a secondary electron beam through an aperture in a second image plane.

Group 4 is drawn to claims 20-22 that claim a scanning electron beam apparatus comprising an objective lens configured to focus a primary electron beam onto a first

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focal point in a first plane at a substrate, where the primary electron beam causes emission of secondary electrons, an electron detector configured to receive and detect the secondary electrons, a second lens configured to focus a beam of the secondary electrons onto a second focal point in a second plane when the primary electron beam is in-focus and an aperture centered around the second focal point when the primary electron beam is in-focus.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, there is no generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the

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prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of

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the other invention.

A telephone call was made to Mark Thronson on October 9, 2003 to request an

oral election to the above restriction requirement, but did not result in an election being

made.

Applicant is advised that the reply to this requirement to be complete must

include an election of the invention to be examined even though the requirement be

traversed (37 CFR 1.143).

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Paul Gurzo whose telephone number is (571) 272-2472.

The examiner can normally be reached on M-Fri. 7:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, John Lee can be reached at (571) 272-2477. The fax phone numbers for the

organization where this application or proceeding is assigned are (703) 872-9306 for

regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

0956.

PMG

March 29, 2004

SEPERVISERY PATENT EXAM!NEP

TECANO: OGY CENTER 2800